Index: Volume 35 January–December 1978

Makeup of Volume 35

Month	*pages*
January	1-48
February	49-96
March	97-144
April	145-192
May	193-240
June	241-288
July	289-336
August	337-384
September	385-432
October	433-480
November	481-536
December	537-584

General subject headings

Accident report
Advanced Passenger Train
Airlines
Alan Williams' column/Inter-City Diary†
British Rail
Containers
Countries*
Electrification†*
Electronics
Europe
Events/Diary of events†
Forum/Readers' letters†
High Speed Train
Industry/Railway industry†
International
London Transport
Motive Power
National
Newsdesk/Home news†
Newsdesk/Overseas news†
Newsreel†
Obituaries*
Organisations etc*
Rapid transit
Regions (BR)*
Review/New books†
Rolling stock
Sealink/Shipping
Seaspeed/Hovercraft
Signalling
Steamspot/Steam portrait†
Stocklist/Stock changes†
Traffic report†
25 years ago . . .†

Headings which changed during the year (May) will be found under the current heading, eg: Forum

** See under respective country, name, etc.*

† Page numbers only: individual topics not shown in detail under this heading.

Page numbers in parentheses denote photo-features or news photographs unrelated to paragraphs.

A

Accident report
Annual report 1976 126
Bricklayer's Arms Junction, SR / Collision at 419
Finsbury Park and Arsenal, LT / Electrical fusing between 82
Hither Green, SR / Derailment at 420
Luton, LMR / Collision at 36
Merkland Street and Govan Cross, GGPTE / Collision between 36

Advanced Passenger Train:
Air conditioning 421
Birmingham, Liverpool, Manchester in 1983 / APT to 441
doors / Actuating APT-P 469
First impressions of APT-P 354
named / First APT 181
Roll-out (Railtalk) 341
11 years on (268)

Airlines:
Airport connections (Railtalk) 53
Airports White Paper keeps options open 182
London-Manchester 'Shuttle' planned / BA 441
Shuttle business / New BR drive for 182
'Skytrain' / Amtrak sells through 444

Alan Williams' column / Inter-City diary
27, 60, 156, 279, 326, 375, 423, 470, 525, 574 replies 233, 378

Association of Metropolitan Authorities:
hazardous loads should go by rail says AMA / More 440
Road maintenance worries AMA 392
road/rail freight interface / AMA looks at 249
Transportation conference 295

Australia:
Addendum, and views, from down under 473
Company offers to build new line 202
HST for New South Wales? 546
ML Engineering / More work for 83
Rail fasteners order 572
track upgrading programme / A$17.4million 184

Austria:
Bicycle hire service 251
departure times / Standardised 184
Dowty valves for Plasser & Theurer 278
electrification completed / More 202
Innsbruck / Rapid transit in 202
operating results / Improved 346
Transit tax for lorries 347
Travel preferences inquiry 136
Tunnel rescue coach commissioned 299
Vienna Metro opened 202, 329

B

Bangladesh:
British aid 299
Canadian aid for railways 442
Steel forgings and fabrication order for BREL 278
Wagon orders 534

Belgium:
Antwerp area service restored 300
Brussels / Transport in 347
Camera 'cop' at crossings 299
electrification / More 203
North Sea coast-Brussels services reprieved 41
Results in 1977 394

Brazil:
GEC / £13million contract for 130
Sao Paulo Metro contract for Westinghouse 180

British Oxygen Corporation:
washing for private wagons / Automatic 229

British Rail:
Aggregates by rail 365, 471
aggregates merry-go-roung / The first 407
Airport connections (Railtalk) 53
Annual report 1977 303
Around the clock (24)
Augean stable? (Railtalk) 198
Australian view of BR / An 55
Automation under control (Railtalk) 6
Bicycles by HST — weekends only 487
BREL Works / Visits to 471
bridge anchorages for BR are first in UK / High fatigue resistant 34
British Transport Hotels centenary at York 298
British Transport Hotels reorganised 249
buffet prices go national / Cheaper 543
Cash only 528
catering vehicles to be refurbished / All Mk 1 343
celebration / No cause for 246
China / team visits 487
Chinese mission results 543
chopper equipment / buys first dc 534
Class 20s at home and away (216)
Class 31: mixed traffic (264)
'Class 44 Farewell' tour (139)
Class 210: 'Nice try — but . . .' (Railtalk) 245, 376
Class 313 / View from the 528
coal delivery under threat / Domestic 200
coal traffic / Miner's productivity deal boosts 182
Commercial policy changes 247
commuter campaign / Little new from 182
Compensation limits increased 86
Control tables by computer (Railtalk) 198
Corporate advertising campaign starts 247
cranes / Ecko safe load indicator for BR 374
Cross-City movements 152, 280
design 1948-1978 / Journey by 485, (501)
dmu / Prototype replacement 7
Dmu refurbishing programme on schedule 38
Drivers' hours — timetable for introduction of EEC legislation 133
Electrification — BR states its case 349
Electrification — 'Faith and hope in abundance' (Railtalk) 293
Electrification lobby begins 199
Electrification — more sound but still little substance 247
Electrification priorities 104, 232, 326
electrification / Railway 526
Electrification report expected early next year 391
Electrode repairs for rail wheelburns 32
emu / Next generation 199
Enigma variations 152
Euston Square development let 490
Euston Square development valued at £3.2million 200
Ex cathedra (562)
Fare play (Railtalk) 101
Fares again (Railtalk) 149
fares / CTCC report on reduced 133
fares held for 1978 295
Fares policy 7, 280, 376
Fares up 14½% for 1978 38
fences and stiles / Maintaining lineside 84
football business / BR pursues 439
forecasts / Passenger cost and revenue 134
freight contract signed / £50million 295
Freightliners 86, 439
GEC to test ac motors 543
GEC traction / orders for 82
GEC / £10million contracts for 469
Girling brakes 180
Golden Rail in 1978 / New record for 38
Golden Rail / More resorts for 488
Good housekeeping agreement under threat 133
guide dogs / First class for 344
Inter-City outlook on BR 253
investment under-spent 199
Kellogg's child concession repeated for 1978 343
Kellogg's promotion tops the million 247
Level-crossing accident figures 391
Level-crossing modernisation recommended (392)
Level-crossing protection on BR 454
livery / Class 56 in experimental (437)
loan for BR / Another European 134
Local government and rail services 424, 528
lorry plans / Hauliers unhappy with BR 247
Manchester-South Yorkshire-Humberside Corridor / The 55
Manpower reduction slows 199
Mk 3 stock 281, 424, 528
Max-Pax a financial success 250
menus / Cheaper afternoon tea and new 393
ML / More contracts for 180
Moto perpetuo (Railtalk) 541
Motorail services 10
named / More locomotives to be 440
Nameplates 11
Neasden development — details announced 298
Neasden / Freight complex and hypermarket 280
North & West 231, 327
North London Line — two viewpoints 183
Parker lecture: 'A way to run a railway' 205, 269
Parker / Sir Peter (Railtalk) 293
Passenger business sector costs and revenue 295
Passenger cost and revenue forecasts 134
passenger traffic in London and the South-East / Rail 56
pint angers publicans / Cut-price 345
ports / Rail facilities at 472, 576
preservation dwarfs BR resources / Over-generous 543
principle? / A question of (Railtalk) 150
Private wagons on show 38
prospect? / A brighter (Railtalk) 55
Rail freight's contribution to infrastructure costs 471
rail pads for BR / 1.75million 229
railbus off to a good start / LEV 281
Railbus on test 343
Railfreight deficit — on a knife edge 181
Railrovers on sale again 248
railway requirements published / New 182
Rate for the job (Railtalk) 342
replacement allowance for passenger business? / £50million 133
report / Half-term (Railtalk) 437
Re-railing No 31,273 74
Ripper / More contracts for 421, 469
Rolling stock investment 134
Safety Annual Report 1976 / Railway (Railtalk) 54
safety in 1976 / Rail 126
Senior Citizens / Free travel for 295, 376
Short wheelbase vehicles . . . 152
signalbox-to-train radio-communication project / BR's pilot 226
skateboard riders / BR vetoes 199
sodium-sulphur battery on trial / Large 374
Speedlink service between Scotland and South Wales / New (38)
Speedlink service / South Wales-North East England 295
Steam excursions up to 1985 439
steam / reflections on the return to 373, 471
steam specials (199), 248
Student railcards 182, 232, 440
Suggestions win awards 295
Summerbreak programme launched 298
Tapered roller bearings improve electric railway performance 570
Taunton fire / After the (Railtalk) 389
teleprinter network / Equipment orders for new 180
test bogie under Mk 3 coach (392)
Thames Barrier Project by rail / Limestone for (154)
Timetable dress-rehearsals 104
Timetables 1978-9 218, 257, 306, 352
track / The state of BR 526
Train catering 181, 200, 249, 445
Transmark / Queen's Award for 247
Trans-Pennine services 8, 377, (456)
tunnel lamp / New 278
turning point for BR? / A 359
uniforms on test / New 344
Wagon utilisation table 39
wagons / More freight carried with fewer 39
way ahead for BR / The 301
Welsh language speed up 543
Which? consumer report (Railtalk) 5, 152
White Paper / Benefits in latest 134

C

Canada
British Columbia Railway partial closure recommended 251
CN / Another profit for 137
CP Rail passenger service ends 137
'Discovery Train' launched 442
LRC chosen for experimental demonstration passenger service 89
LRC train chosen (41)
Quebec-Ottawa route 300
rail weld tester / New 180
Urban transit: new decision-making power for provinces 41
VIA Rail completes take over 546
VIA Rail takes over 203
VIA Rail trans-continental service finalised 41
VIA takeover delayed 347
White Pass & Yukon threatened 548

Central Transport Consultative Committee
Report on BR's reduced fares 133
reports for 1977 181
Wider powers 38

Chartered Institute of Transport:
International transport conference for October 345

China:
Computer equipment ordered 347
Electrification progress 41
Japanese looking for business 89
line opened / New 394
modernisation planned / Rapid 347

Conservation Society Ltd:
Assessing Trunk Roads report published 38

Consumers' Association:
Which? report (Railtalk) 5, 152

Containers:
BREL / Another order for 534
British Standard for containers / New 87, 534
Deep-sea contract extended 184
Didcot depot latest 199
Didcot / Government maintain low profile at 133
East German traffic 184
Finnish crossing point / New 137
Fleetliner contract renewed 393
Freightliner livery / New (9)
Freightliner returns to BR 86, 439
Freightliner terminals planned for two ports 202
Parcels contract wrapped up 393
Portbury terminal study 545
refurbishing doubled 534
Seaforth terminal / Section 8 545
Self-lifting pallets: inter-modal breakthrough? 467
Southampton clear for South African container traffic 298
Stratford fully operational again 40, (86)

Czechoslovakia:
Ivancice bridge preserved / Historic 442

D

Denmark:
Copenhagen / Station modernisation in 442
Transfers to road opposed 184

E

East Germany:
Business expresses 184
container traffic 184
Diesel-shunter development 443

Eastern Region:

buffet / Bye-bye (Cambridge) 182
Cambridge / New trains for 135
Chelmsford ... and Shenfield / Commuting from 472, 576
Chelmsford / Improvement at 134
Chingford / Station improvements at 39
Cleethorpes / Storm damage near (107)
East Anglia / North from 473
East Coast power today (69)
Felixstowe / Section 8 grant for 200
GE commuter news-sheet 489
GN electrics / Wheel-flats on 424
GN electrification — 'Flaunting it' (Railtalk) 197
GN electrification formally opened 200
GN radio communication contracts placed 278
GN suburban electrification scheme complete 61
GN / Timetable for radio trials on 296
Grimsby Docks turn-round 87
Harwich / New maintenance facilities at 534
Heaton, Newcastle / New HST depot opened at (12), 39
HST services daily in May / 12 200
IC125 service complete / Initial 345
Kings Cross area resignalling 157
Kings Cross / Computerised train information at 440
Kings Cross / New light used on access at 572
Kings Cross roof repairs 200
Kirkstall bridge renewed 544
Liverpool Street station / Brick tympana at 471
Liverpool Street station / Work at 135
Newton Aycliffe / New station for 134
North Woolwich line improvements 489
Northallerton opened for one day 489
Norwich Division revisited / The 397, 526
Nypro / No Section 8 for 296
Permanent-way work hampers IC125 296
publishing venture / Another 134
Pullmans bow out (214)
Railfreight miscellany (314)
Redcar / New steel station at 345
Romford-Upminster-Grays 116, 232
Scarborough / Better service for 440
Selby coal to go by water? / Some 441
Selby Diversion: parliamentary powers sought 87
semaphore on East Coast route / Last 489
seminar for county councils / Rail 489
Speedlink expansion 249
Thurrock? / New station for 441
Timetables 1978-9: 'Deltic' Indian summer 352
Timetables 1978-9: First 125mile/h running 257
Tunnel work on the East Coast main line 409

Egypt:

Cairo Metro go-ahead 394
Canadian locomotives / Soft loan provides 394
Motive power to be refurbished 89
Siemens atc ordered 534
Trams ride on rubber 469
Transmark / Contract for 39

Electrification:

Austria 202
Belgium 203
China 41
France 137
Great Britain 34, 61, 67, 104, 197, 199, 201, 232, 247, 249, 293, 349, 391, 526
Hong Kong 252
Hungary 41, 348
Pakistan 186
Sweden 396
USSR 548
West Germany 90, 443, 491

Electronics:

Automation under control (Railtalk) 6
Computer control at Amsterdam 396
Computer control for MARTA, USA 229
Computerised train information at Kings Cross 440
Control tables by computer (Railtalk) 198
Duplex transmission on optical fibres 82
fuel consumption meter / Accurate 34
glass cutting / Numerically controlled 131
intercom system / New 34
Intruder detection 534
loudspeakers / Explosion proof 229
loudspeakers / Vandal-proof 325
Maintenance scheduling by computer 325
Master Timetable System / Southern Region's 123
On-train data communication for LT 469
radio communication project / BR's pilot signalbox-to-train 226
teleprinter network / Equipment orders for BR's new 180
Westinghouse and Cubic co-operation 534

Europe:

Channel Tunnel resurrection? 461
Channel Tunnel revival? 575
Channel Tunnel — Sir Peter speaks out 488
Continental connections 151
co-operation / The European Communities Commission looks for closer railway 222
Cross-Channel freight services 344
dangerous substances / Transport of 182
Drivers' hours 133
Electrification — Charity begins at home 472
equipment deal / Two-way 346
Germany / Earlier connections to 442
Innsbruck / 'Corridor' route to 491
IVA 79 largest ever 548
loan for BR / Another European 134
'Night Ferry' — doubts allayed 299
'Night Ferry' retimed 546
'Night Ferry' sleepers / new livery for 41
piggyback / Quota scheme favours 299
Railway Conferences at Edinburgh 488
'Rheingold' Jubilee: 1928-1978 202, (360)
Road haulage permit changes 86
Road haulage permits for France and Italy 544
summer timetable changes / European 1978 89
TEE changes 546
Thomas Cook European network map / New 136
traffic regulations deferred again / EEC 39
Train-ferry groupage to Spain 394
Transport symposium papers published 544

Events / Diary of events:
11, 57, 106, 153, 233, 425, 473, 531, 577

F

Finland:

Annual Report 1977 394
Cut-off in service 203
Kouvola / New frontier crossing point for rail containers at 137
Leningrad / Day express to 394
Sleeper bolt production equipment for Finland 34

Forum / Readers' letters 7, 55, 103, 151, 231, 280, 327, 376, 424, 471, 526, 571

France:

Aix-les-Bains bottleneck relieved 491
'black tide' on rail / The 300
Calais-Paris services / Catering changes on 347
Class 15000 reliability 203
'corail' livery / Locomotives in 251
'corail' stock / Push-pull workings with 547
Cuneo-Ventimiglia restoration progress 89
diesel railcars / French 329
Electrification for military traffic 137
Express emus 251
Freight boom on branch line 251
gas turbine / Supercharging 443
Invalides to Orsay / From 394
'Le Rhodanien' to be downgraded 300
Ligne de Sceaux signals modified 184
livery changes / Carriage 491
Lyon-Ambérieu / Higher speeds on 300
Lyon Metro depot (203)
Lyon Metro opened 347
Marseilles Metro extension 251
Marseilles Metro / First section of 137
'Mistral' / Misfortune on the (Railtalk) 390
Montparnasse / Double-deckers at 394
Paris-Lyon high speed line 137
Paris Metro prototypes unveiled 89
passenger services develop a new momentum / French 275, 322
Phasing out 750V 443
Plans for growth on French Railways 220
Pont-St-Michel / Improvements at 184
RER links completed 90
Revue: Railway centenarian (Railtalk) 542
RTG turbine experiment 203
smoking 'hazard' / Fine for 443
TGV on high-speed tests / Pre-production (487)
TGV pre-production unit at speed 491
thyristor locomotives at Ventimiglia / French 89
Turbotrain economy / Quest for (Railtalk) 342
turnout / High-speed 443

G

glass-cutting / Numerically controlled 130

Greater Glasgow PTE:

Park-and-ride facilities at four stations 442

Greater London Council:

LTPC doubts GLC plans 40
operational decisions' says LT Chairman / 'We make 40
Transport Supplementary Grant for 1978-9 86

Greater Manchester PTE:

Altrincham Interchange 464
Brinnington station / First train at (85)
Hattersley station opened 299
rail strategy for Manchester / A 166, 280, 376
Transport Supplementary Grant for 1978-9 86

H

High-Speed Train:

Bicycles by HST — weekends only 487
buffet car for WR / First new (201)
East Coast Timetables 1978-9 257
ER services daily in May / 12 HST 200
Export orphan (Railtalk) 101
French appraisal of Inter-City 125 6
Heaton depot / New (12), 39
Longrock, Penzance / New shed at (438)
Mealstream / Henshall acquire 374
New South Wales? / HST for 546
Northeast-Southwest HST sets approved 343
Off the beaten track (458)
Permanent-way work on ER hampers IC125 296
Pilot schemes on ER delayed 134
Power car engines de-rated to 2,000hp (391)
Power cars running light (101)
Revised layout for future HSTs? 247
Scotland braces for the big one — 1979 65
Train of thought (Railtalk) 438

Hong Kong:

Door gear for Metro vehicles 421
Driving simulator for Metro 180
Kowloon-Canton Railway's border marshalling yard 41
KCR electrification accepted 252
Light rail proposed for Hong Kong Island 395
Metro cars tested on Tyneside (252)
Metro extension details 90
Metro plant 534
Quiet year for KCR 185
Transmark win feasibility study contract 86
traversing turntable / BREL build 230, 329
tube tunnel started / Immersed 90
Tunnel linings for Metro 131

Hungary:

electrification / Finance for 41
electrification / More 348
Transport subsidy soars 185

I

India:

budget / Surplus predicted in 348
Coal shipments increase 348
double-deck coach / New 348

Industry / Railway industry: 34, 82, 130, 180, 229, 278, 325, 375, 421, 469, 534, 572

Institute of Consumer Ergonomics:

Automatic fare collection study for LT 135

Institution of Civil Engineers:

Railway preservation symposium 296

Institution of Electrical Engineers:

Automation in Transport Systems colloquium (Railtalk) 6

Institution of Mechanical Engineers:

Railway braking conference 391
Travel scholarship for engineers 440

International:

High speed railways: a world progress report 553
International Railway Congress 1979 394
nostalgia market? / Expanding 251
Nostalgia time (Railtalk) 294
Pleasure rail 246
Radio on rail (Railtalk) 294
Red Star to New York 344

Iran:

Iran-Pakistan link improvement 346

Irish Republic:

Coaches refurbished (396)
deficit up in 1977 / CIE rail 491
Freight results below target 41
Inchicore / New motive power depot at 492
Irish interlude (316)
Passenger boom continues 395
passenger loadings up / Main-line 41
revolution / The Irish 565

Israel:

Eilat line progress 252

Italy:

Cuneo-Ventimiglia restoration progress 89
Modane-Turin widening 139
Simplon route closure 42
Ventimiglia / French thyristor locomotives at 89
Verbania / Temporary bridge at 284

J

Japan:

cherry blossom time on JNR / When its (Railtalk) 103
linear motor / New record for 284
Okinawa / Unions propose railways for 444
passenger trains planned / More 395
'Shinkansen' services / Traffic falls on 90
Strikers disciplined 395
test line / High-speed 396
Tokyo Airport / Rail link proposed for new 90
US, China, Brazil seek rail technology 548

K

Kenya:

Alcad batteries for Kenya 130
Bogie wagon underframes leave BREL (154)
Gloucester bogies — deliveries start ahead of schedule 34
livery / New (347)
Rail orders 180
Wagon order nears completion at BREL (103)

L

Liverpool University Public Transport Society:

Photographic prizewinners (213)

London Midland Region:

Appleby / Memorial plaque to Eric Treacy (544)
Bedford station opened 544
Birmingham connections 76, 151, 280, 327
Birmingham, Liverpool, Manchester in 1983 / APT to 441
Birmingham / Taktfahrplan 76
Birmingham International / Tough floors at 84
Birmingham's Cross-City line 310, 424
Blackburn / Section 8 for 439
Blue Circle Cement / Section 8 for 391
Bredbury platform / Hydraulic lift for 180
Briar Hill training centre opened 135
Brinnington station / First train at (85)
Cable laid on the move 34
Carlisle / Better carriage maintenance facilities for 39
caustic-soda traffic / New 87
Clitheroe / 'Dalesrail' excursion to (247)
Cressington station restored 263
Crewe / Boxing Day passengers at (107)
Cricklewood depot contract for Henry Boot 421
Croxley Green, BR, and Watford, LT 29, 105
'Cumbrian Coast Express' — double expansion? 392
Dales Rail survey published 39
Gargrave aqueduct repaired (155)
Kings Cross BR-LT interchange / Name for 183
Kings Cross interchange / New 87
'Knotty' remembered in music / The 296
Leicester / Facelift for 544
Lime Street / £4million facelift for 183
Liverpool Road station, Manchester to house museum 545
Llandudno / Rationalisation at 558
Long load goes by rail 296
Luton / New platform at (155)
Manchester / A rail strategy for 166, 280, 376
Manchester / Anniversary of Midland Hotel 442
Midland Railfreight miscellany (128)
Midland services: aspirations and apprehensions 402
Midland suburban dmus cut back 441
Midland traction performances and options 527
Milton Keynes / New station at 392
Morecambe Bay / North of (266)
Mossley Hill services / Partial reprieve for 296
Motor Show / By rail to the 296
Motor Show — guarded optimism from BR 544
Motor Show / Temporary access bridge (488)
Motor Show / The challenge of the named *City of Liverpool* / Class 87 loco (85)
North & West route today / The 108
Railfreight exhibition / Derailment behind (85)
St Pancras-Bedford contracts placed 201
St Pancras-Bedford resignalling contract signed 39
St Pancras-Bedford spt equipment for Plessey 374
Seaforth Dock? / Rail link for 87
Settle & Carlisle Railfreight (28)
Settle / Decorative plaque refurbished at (9)
Shuttle business / New drive for 182
Sinfin services cut 183
Stafford / Super pit for 544
Timetables 1978-9: Few changes 218
Watford / By rail to 29, 105
Wembley / Quick link for 296
West Coast contrasts (168)
West Coast power today (69)
Woodhead line? / Costs threaten 248

London Railways Advisory Committee:

Report published 201

London Transport:

Acton / Aggro at 105
Airport connections (Railtalk) 53
Annual Report 1977 320
attitudes 56
Authority-to-travel ticket machines introduced 88
Automatic fare collection ergonomics study 135
automatic ticket checking scheme / Go-ahead for £55million 393
Automatic ticket 'wipers' installed 546
Automation under control (Railtalk) 6
blind / Special measures to aid 298
Bucks and Essex / Fares up in 545
C77 stock (251)
C77 stock on District Line / First 298

Capital programme for next decade 393
Chairman to retire early 183
Chalfont-Chesham 520
chopper set on test / First 229
Choppers and after 250
Christmas Day / Free travel on 545
connection' / 'Get the 575
D78 stock / Single doors for 278
Dis-integration (Railtalk) 438
District Line timetable / New 40
Fares increase limited to 10% 88
fares policy 231
financial results for 1977 250
Heathrow Central / Good start for 135
Heathrow Central / Heating 278
Heathrow link com[illegible] 70
Heathrow / Rail link urged for fourth terminal at 346
Heathrow traffic 280
Jubilee Line re-affirmation 298
Jubilee Line / Resignalling the 393
King Cross BR-LT interchange / Name for 183
King Cross interchange / New 87
LTPC doubts GLC plans 40
North London Line — two viewpoints 183
Northern Line / Single line working on the 250
On-train data communication 469
operational decisions' says LT Chairman / 'We make 40
Season and Rover tickets / Improved availability for 135
senior citizens called for / Standardised concessions for 184
senior citizens / Identity permits for 490
Thames Tunnel approved 490
Thames Tunnel design work planned 135
tv station supervision / More 393
Underground terminals / New safety measures for 346
watchdog body / Report from LT 490
Watford, LT / Croxley Green, BR and 29
Watford / By rail to 105
West London / LT in (564)
1977 better than forecast 201

M

Merseyside PTE:
Economy cuts to rail services 136
Merseyrail is out of the tunnel 493
Transport Supplementary Grant for 1978-9 86

Mexico:
Mexico City contract / Two British bids for 35

Morocco:
Motive power developments 42

Motive power:
APT-P / First impressions of 354
Drivers' cabs / Engineers look at 22
engines / Looking inside 229
GEC Company / New 278
Internal cleaning of engines 572
overheating engines / Shuts down 278
performance / Modern train 424
semiconductor brochure / New 421
shunters / Brake shoes for 422
Synchronous motor traction 186
Taiwan 173
traction resistor / New 325

N

National:
Advanced Ground Transport / Cool look at 248
British Standard for bridges / New 421
British Standard for containers / New 87, 534
British Standard for rail revised 572
bus fare survey / Concessionary 134
Bus traffic still falling 133
buses urged by Minister / Support for 86
Chinese delegation see transport technology 295
Design for Passenger Transport Conference planned 39
Electric vehicles rule in energy-limited future 248
Energy statistics 440
Goods vehicle operators' licensing inquiry 87
Green Paper on energy policy / Little for rail in 200
Light Rapid Transit today and tomorrow 246
Local government and rail services 424, 528
lorry plans / Hauliers unhappy with BR 247
lorry routes urged / More 544
overbridge accidents / Moves to cut 345
Pioneering work recognised 295
Public v private transport 106, 233, 328
rail says Minister / No merit in protecting 344
RDA and RIS to merge 391
railway requirements published / New 182
Research register published 87
road building / Ceiling on 247
road debate / BR enters new 87
Road haulage permit changes 86
roads cost £480million a year / Poor 345
Section 8 grants 200, 296, 439, 488, 545
Select Committee and White Paper 376
Transport Act provisions in force / More 487
Transport research reduced 440
Transport Secretary more pragmatic 248
transport statistics published / New 199
Transport Supplementary Grant for 1978-9 86
Transport Supplementary Grant for 1978-9 set at £275million 39
trunk roads: study published / Assessing 38
Wagon exhibition and symposium 439
White Paper on British Rail / Benefits in 134

National Consumer Council:
Are you being served? (Railtalk) 486

National Union of Railwaymen:
Five principles of NUR lobbying programme 38
Good-housekeeping agreement under threat 133
Resolutions at AGM 391

Netherlands:
Amsterdam / Computer control at 396
Amsterdam Metro in service 42
German diesel units in rationalisation package 42
Intercity III tests extended 396
motor tested / Three-phase 396
Postal traffic 90
The Hague and Rotterdam / GEC equipment for 229

New Year Honours: 88

New Zealand:
Charges increased 185
Commuter push-pull rejected 138
investment in freight / More 185
Kaimai Tunnel opened / New 568
passenger stock / Large response to call for new 444
Prices increase by 12½% 396
rolling stock sought / New 204

Newsdesk / Home news: 38, 86, 133, 181, 199, 247, 295, 343, 391, 439, 487, 543

Newsdesk / Overseas news: 41, 89, 136, 184, 202, 251, 299, 346, 394, 442, 491, 546

Newsreel: 9, 85, 107, 154

North Korea:
Struggle continues 492

Northern Ireland:
Belfast station link 300
Belfast's northern rail link / Go-ahead for 370
Dmu delivered by road (107)
'Enterprise' coaches refurbished (395)
Londonderry services re-routed 138
Notes from Northern Ireland 170
profit in 1977 / £¼million 395
Terrorists close line 300

Norway:
Class E116 locos enter service / New 185
Electric traction 233

O

Obituaries:
Chapelon, André 422
Treacy, The Rt Rev Eric 329

P

Pakistan:
British aid 394
Class structure simplified 186
Electrification extension proposed 186
five-year development plan / New 185
Iran-Pakistan link improvement 346
Lahore circular railway shelved 185

pelletised products / Better loading for 84

People / Appointments: 40, 88, 136, 204, 444

Plasser & Theurer / More mechanisation from 84, 572

Poland:
Accident rate causes concern 348
Army assists with modernisation 396
freight vehicle designs / Effect of axleload limits on 186
North-south rail route 300
wagon complaints / More 138

Portugal:
locomotive and coaches / New (89)

Powell Duffryn Wagon Co Ltd:
Rail tanker conversion 278
Scrap-carrying rail wagon / 200tonne 469

Private Railways: (9), 84, 88, (107), 202, 393, 523

Private Wagon Federation:
Display of wagons 38

Q

Queen's Birthday Honours: 348

R

Railtalk: 5, 53, 101, 149, 197, 245, 293, 341, 389, 437, 485, 541

Rapid Transit:
Advanced Ground Transport / Cool look at 248
Fire retardant resins for rapid transit cars 83
Light Rapid Transit today and tomorrow 246
linear motor / New record for 204
maglev vehicle / Transrapid-EMS to build demonstration 130
Senate knock for rapid transit in US 186

resilient track material / Universal 572

Review / New books: 35, 131, 236, 284, 332, 428, 476

Rolling stock:
APT-P / First impressions of 354
brake blocks for general use / Composition 422
Railbus on test 343, 391
Taiwan 173
Train catering 445

Rumania:
Modernisation on Romanian Railways 416

S

Scottish Region:
Aberdeen in close-up 13
Aberdeen / Major works start at 135
Aberdeen / Services to 103
Aberdeen travel centre opened 544
Anglo-Scottish traffic up 345
Argyle trains / Alcad power for 374
Ayr-Largs line electrification / Call for 249
Barrhead station opened / New 544
'Clansman' / Extra stop for the 135
Class 87 loco named *Robert Burns* (245)
commuter trains and extended concession / Experimental 249
company station for Scotland / First 297
Director of Public Affairs appointed 345
Disused line reserved 393
Edinburgh Airport link / BR vetoes 135
Edinburgh-Berwick resignalling completed 201
Edinburgh-Haymarket improvement scheme (155)
Edinburgh / Taxi experiment at 441
Edinburgh Waverley and the East Scotland resignalling project 271, 317
electrification: where next / Scottish 67
Falkirk Tunnel / Concrete track bed for 489
Farther North (362)
Female driver 297
First class withdrawn 183
Glasgow & North Western? / Shades of 489
Glasgow electric (408)
Grampian Region parking charges withdrawn 39
inspection pit / Hot air cleans 230
Lanark / Bus-rail service for 37
Oban? / Late train for 183
Oyne bridge damaged by road vehicle 297
parcels scheme / Next day 201
Punctuality record revealed 183
Push-pull latest 201
push-pull service? / New look for 183
Scotland braces for the big one — 1979 65
shale by rail / More 441
Timetables 1978-9: Consolidation 306
West Highland? / Whither the 232, 328
whisky / Rail 'pipeline' for Chivas 16
Whisky — Scotch on the rails 87

Sealink / Shipping:
Fishguard-Waterford cargo service withdrawn 202
Harwich / Development at 442
Sealink carryings up in 1977 40
Sealink fares to Ireland increased 88
Sealink / New ships approved for 136
Stranraer-Larne / Record 1977 for 202
Stranraer / £1million investment at 40

Seaspeed / Hovercraft:
Dover hoverport opens 394
Dover topped out / Hoverport 202
Seaspeed carry 500,000 passengers in one hovercraft during 1977 136
Seaspeed / Problems for 184
Seaspeed stretched hovercraft / Record carryings for 442

Signalling:
Brazil 130
France 184
Great Britain 39, 83, 111, 135, 157, 201, 226, 271, 317, 325, 441, 523
Single-line control by radio 523

South Africa:
Class 7E ac loco handed over / First 186
riot vehicles / New armoured 396
Sishen-Saldanha diesel loco to be replaced by electrics (251)

South Yorkshire PTE:
Section 20 agreement signed 250
Transport Supplementary Grant for 1978-9 86

Southern Region:
Blackfriars station stones (9)
Central Division: the next steps 209, 328
Central Division timetable / Tuning the 489
Central services 424
Chessington branch and other SR services 57
Class '74 Farewell' railtour (85)
Class 74s / The fading (132)
Class 205 (3H) diesel unit / Facelift for 183
Class 427 units in service (295)
Communications boost 297
conductor-guard services 152
Eastleigh signalling / further details 441
Ferry train potential (Railtalk) 541
Gatwick / Reading rail link for 489
Gatwick resignalling / ML completes 469
Hoo peninsula / Battery power proposed for 297
Line-speed improvements 393, 490
London Bridge train describer extended 325
Lyne Bridge construction (155)
'Operation Picnic' 468
Paddock Wood-Maidstone West (312)
Portsmouth docks / No rail link for 249
Portsmouth Harbour / New layout at 559
President Ceausescu's special train (341)
Refurbishing programme announced 87
safety / Badges promote child 87
South by South-West (58)
South Western Division services 11
South Western main line 162, 281, 378
South Western: the next steps? 328
Southampton resignalling scheme for ML 421
Staines-Windsor & Eton Riverside, SR 400
Surbiton earth slip (155)
Tattenham Corner branch 281
terminal stations / Clearing 572
Three bridges / Train description by vdu only at 572
Timetable System / Master 123
Victoria announced / Operation 39
Victoria / GEC-General Signal takes 325
Victoria resignalling — Stages 1 and 2 for GEC 83
Victoria station / American bid for 200
Waterloo bookstall preserved 391
Waterloo / Cutting down solar gain at 573
Waterloo information control room (154)
Wytch Farm oil strike bigger than expected 297

Spain:
Chopper motor coach trials 186

Steampot / Steam Portrait: 45, 93, 141, 189 237, 285, 333, 381, 429, 477, 533, 581

steel-cutting saw / Portable 83

Stocklist / Stock changes: 44, 92, 140, 188, 235, 283, 331, 380, 427, 475, 531, 579

Sweden:
ASEA battery loco has chopper control 325
Fiat / Big SJ order for 42, 105
Mora-Borlänge electrification completed 396
regular interval services / More 252

Switzerland:
Axe poised in Switzerland? (Railtalk) 150
Freight service speeds higher 138
Furka base tunnel delays 396
Hauenstein tunnel anniversary celebrated 444
MO8 observation car (203)
Operating results 444
Passenger preferences investigated 348
Simmental line / Restoring a 138
Swiss Federal's 1978 budget 111
Swiss Federal / Strategic studies by 138
Tilting vehicles tested 138
Zurich Airport / Through services for 186

Syria:
Hedjaz Railway / Batteries for 421

T

Taiwan:
British trains withdrawn 548
Emus built by BREL await shipment (85)
Trains for Taiwan 173

Tanzania
British aid 299
Chinese to run Tazara until 1980 442
rolling stock / More 487

Traffic report:
43, 91, 139, 187, 234, 282, 330, 378, 426 474, 529, 578

Transport Users' Consultative Committee:
reports for 1977 181
Valleys service changes / views on 346

Travellers-Fare
Reorganisation 181, 200, 249
Train catering: Achilles heel or marketing tool? 445

25 years ago . . .: 46, 94, 142, 190, 238, 286, 334, 382, 430, 478, 532, 580

Tyne & Wear PTE:
Air bags reduce tunnelling costs 229
Centenary publications 393
Communications system for Metro 130
Epoxy finish for Metro cars 421
Loop line bus service delayed 136
Metro entry and exit gates ordered 325
Metro gets moving 412
Metro production vehicle / First (439)
'Rail Link' buses (155)
River Tyne rail bridge under construction (85)
train identification system / Philips 278
Transport Supplementary Grant for 1978-9 86

U

Uganda:
Rail orders 180

USA:
air-conditioning for light rail vehicles / Stone Platt 534
Amtrak counter-attacks 42
Amtrak / Hearings on future of 396
Amtrak names new President 348
Amtrak President Reistrup resigns 252
Amtrak report 371
Amtrak reprieve 444
Amtrak sells through 'Skytrain' 444
ARC contract 325
ASEA in USA / Success for 130
Atlanta Metro / British windscreens in French trains for 131
Conrail losses increase 548
Family-Plan discount increased 548
GRS / contracts for 374
MARTA / Computer control for 229
Rail Pass cheaper 548
Rail Pass / Now a seven-day USA 300
Senate knock for rapid transit 186
'Southern Crescent' keeps running 444
Southern Pacific tries to drop commuters 90
Southern: Giving it away 396
Sperry award for Timken 230
Synchronous motor traction 186
Triplex at conference 278
Washington Metro / Power for 572
weather boosts traffic / Bad 186
Winter timetable accelerations 42

USSR:
Alma Ata maglev progress 548
electrification / 6kV 492
electrification trials continue / 6kV 548
ER200 makes its public debut 42
grain harvest success / Rail transport the key to 492
Interurban electric services 42
Moscow Underground extension 548
Olympic transport plans 138
Tashkent Metro opened 138
Tehran-Moscow daily 548

W

West Germany:
Bavarian Zugspitz Rly / New rack railcars 229
Bogie developments 491
breakdown vehicle / New 443
buffer technology / DB buys British 83
Cab signalling for high speeds 203
Catering on DB 185
charter trains / TEE sets 491
Chopper locomotive on tourist line 491
Class 120 mock-up approved 90
Computer system development 185
DB sinks deeper into trouble 112, 177
deficit / Government action on 347
Dial-a-DB-bus 137
Electric locomotive preserved 395
Electrification extensions 491
Electrification in the North 90
Electrification mileage 443
Eurofima stock starts cascade / New 184
Frankfurt Airport / Direct to 491
High-speed research 90
High-speed routes 184
invalid chairs / Transportable 547
'loading gauge' experiment / Infra-red 348
Locomotive preservation 300
luggage trolleys / 'Passengers' 90
maglev vehicle / Transrapid-EMS to build demonstration 130
Mannheim / New approach to 547
Maximum-speed increase 395
Munich Hbf / Improvements at 252
Nürnberg Hbf / 'U-Bahn' at 204
Nürnberg Metro / Three-phase traction for 138
Overnight service for 'smalls' 348
party travel / Coaches for 252
Radio plan half completed 252
Railway lessons for US servicemen 137
Ruhr 'S-Bahn' system 252
S-Bahn extensions 547
second class travel / Promoting 300
Self-drive car hire at stations 184
Senior Citizens / Concessions for 252
tail lights / Electric 491
telephone service / Improved train 137
Ticketless travel fines up 348
timetable service changes / Summer 137
Transrapid-04 inspected 204

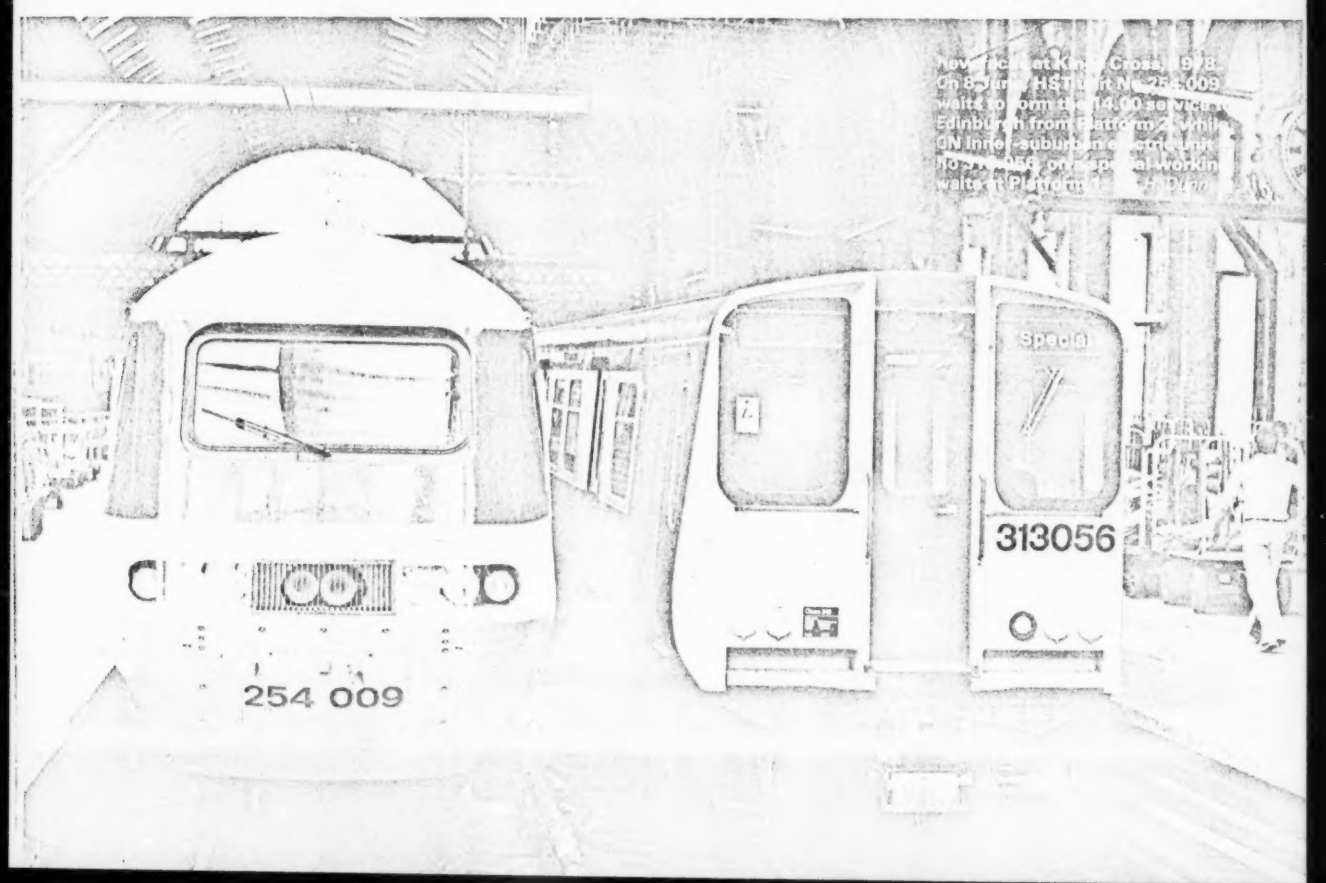
West Midlands PTE:
Birmingham Airport / Maglev for 490
Birmingham's Cross-City line 310
Stourbridge bus station plans 88
Transport Supplementary Grant for 1978-9 86
Travel consortium for NEC 88
Travelcards selling well 136

West Yorkshire PTE:
Airedale and Wharfdale routes / The 549
Support for rail services proposed 546
Transport Supplementary Grant for 1978-9 86

Western Region:
aggregates contract signed / New 249
aggregates traffic / More 88
Ammanford mine / First train from 183
Barnhill Quarry says the DoE / Try rail link to 346
Bath goods yard site / Retail store for 545
Bridgend reconstruction / Contract for 345
Bridgend reconstruction goes ahead 88
Bristol area passenger comments scheme 490, 575
Cardiff Division / Coal and the 17, 55
Central Wales Line / New move on 442
Class 50 named *Ark Royal* / First 135
Class 50s West (560)
Didcot / Car-train derailed near (107), (133)
Didcot depot latest 139
Didcot / Government maintain low profile at 133
Exeter St Davids / Variety at (410)
Exmouth trains to run on Sundays 545
Hereford improvements approved 545
HST buffer car / First new (201)
Hull / Fish to 135
Ilfracombe-Barnstaple bus services in next rail timetable 135
Lelant Saltings opened 297
Lever Brothers promotion — coming clean' 490
Line speed improvements 490
Longrock, Penzance / New HST shed at (438)
Newbury / High-speed drain at 34
North and West route today / The 108
Passenger traffic continues to increase 442
Port Talbot improvement / Public money for 545
Re-railing No 31 273 74
road debate / BR enters new 87
St Ives 'park-and-ride' scheme goes ahead 183
St Ives rail link / Success for 490
signalling / Unease at reversible 135
Slough-Windsor & Eton Central, WR 224, 377
South Devon / Summer memories of (72)
Staines West station sold for a pound 297
Steel wagons make first run 297
Stroud Valley line gets refurbished dmus 345
Swansea viaduct rebuild starts 345
Timetables 1978-9: Consolidation 306
Twyford station wins environment award 297
Valleys services outlined / New timetable for 249
West Wales / Faster trains for 441
Western National paint bus in GWR livery (442)
Windsor & Eton station development / Plans for 250
Worcester / Reflections at 56
Worcester travel centre opens 442
Yate station to remain closed 249

Y

Yugoslavia:
Serbian rail deficiencies 492

Z

Zambia:
Chinese to run Tazara until 1980 442
study completed 421